

H05RR-F / H05RN-F rubber-sheathed cable



Technical data

- to DIN VDE 0285-525-2-21 / DIN EN 50525-2-21, IEC 60245-4
- H05RR-F additionally to BS 6500
- **Temperature range**
-30°C to +60°C
- Permissible **operating temperature** at conductor +60°C
- **Nominal voltage** U₀/U 300/500 V
- **Max. operating voltage** three-phase and one-phase a.c. U₀/U 318/550 V for direct current U₀/U 413/825 V
- **Test voltage** 2000 V
- **Minimum bending radius** 7,5x cable Ø

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of rubber EI4 to DIN VDE 0207-363-1 / DIN EN 50363-1
- Core identification to DIN VDE 0293-308
- Cores laid up
- Outer sheath black:
RR-F = Rubber, EM3 to DIN VDE 0207-363-2-1/DIN EN 50363-2-1
RN-F = EM2 to DIN VDE 0207-363-2-1/DIN EN 50363-2-1

Properties

- Oils and fats are allowed to come in touch

Tests

- Behaviour in fire to DIN VDE 0482-332-1-2 DIN EN 60332-2-1, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- G = with green-yellow conductor
x = without green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- H05RR-F is replaced the former type NLH and NMH up to 2,5 mm².
- H05RN-F is replaced to former type NMHÖU up to 1 mm². at 1,5 mm² - not in VDE; adapted to VDE (H)05 RN-F
Art.no. 36008 = national type: A05 RN-F
Art.no. 36007 = (A)05 RN-F, outer sheath colour grey, for window shades manufacturer
- Further sizes are available on request.

Application

H05RR-F

These cables are suitable for connecting electrical appliances, for example vacuum cleaner, flat irons, soldering irons, kitchen appliances, toaster, stoves etc. They were also used for medium mechanical stress in households and offices. These cables are suitable for fixed installation in partition walls, furniture, decoration covering and in hollow spaces of prefabricated building parts. They are not suitable for use in open air, in industries (also permitted to tailor workshops and of that kind) or in agriculture plants and for connecting commercial electrical tools.

H05RN-F

These cables are suitable for connecting electrical equipment with low mechanical stress in dry, damp and wet places as well in open air, for example as connection cable for horticulture tools. These cables can be used in contact with fats and oils (for example deep fryer). They are also suitable for fixed installation, for example in furniture, decoration covering, partition walls and in hollow spaces of prefabricated building parts. The installation in hazardous areas is allowed.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

H05RR-F

| Part no. | No. cores x cross-sec. mm ² | Outer Ø min. - max. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|------------------------|---------------------|---------------------|---------|
| 35001 | 2 x 0,75 | 5,7 - 7,4 | 14,4 | 60,0 | 19 |
| 35005 | 3 G 0,75 | 6,2 - 8,1 | 21,6 | 74,0 | 19 |
| 35009 | 4 G 0,75 | 6,8 - 8,8 | 29,0 | 78,0 | 19 |
| 35019 | 5 G 0,75 | 7,6 - 9,9 | 36,0 | 99,0 | 19 |
| 35002 | 2 x 1 | 6,1 - 8,0 | 19,0 | 72,0 | 18 |
| 35006 | 3 G 1 | 6,5 - 8,5 | 29,0 | 85,0 | 18 |
| 35010 | 4 G 1 | 7,1 - 9,3 | 38,0 | 98,0 | 18 |
| 35020 | 5 G 1 | 8,0 - 10,3 | 48,0 | 134,0 | 18 |
| 35003 | 2 x 1,5 | 7,6 - 9,8 | 29,0 | 98,0 | 16 |
| 35007 | 3 G 1,5 | 8,0 - 10,4 | 43,0 | 120,0 | 16 |
| 35011 | 4 G 1,5 | 9,0 - 11,6 | 58,0 | 150,0 | 16 |
| 35013 | 5 G 1,5 | 9,8 - 12,7 | 72,0 | 180,0 | 16 |
| 35004 | 2 x 2,5 | 9,0 - 11,6 | 48,0 | 145,0 | 14 |
| 35008 | 3 G 2,5 | 9,6 - 12,4 | 72,0 | 170,0 | 14 |
| 35012 | 4 G 2,5 | 10,7 - 13,8 | 96,0 | 220,0 | 14 |
| 35014 | 5 G 2,5 | 11,9 - 15,3 | 120,0 | 270,0 | 14 |
| 35015 | 3 G 4 | 11,3 - 14,5 | 115,0 | 260,0 | 12 |
| 35017 | 4 G 4 | 12,7 - 16,2 | 154,0 | 340,0 | 12 |
| 35016 | 3 G 6 | 12,8 - 16,3 | 173,0 | 361,0 | 10 |
| 35018 | 4 G 6 | 14,2 - 18,1 | 230,0 | 462,0 | 10 |

H05RN-F

| Part no. | No. cores x cross-sec. mm ² | Outer Ø min. - max. mm | Cop. weight kg / km | Weight app. kg / km | AWG-No. |
|----------|--|------------------------|---------------------|---------------------|---------|
| 36001 | 2 x 0,75 | 5,7 - 7,4 | 14,4 | 78,0 | 19 |
| 36003 | 3 G 0,75 | 6,2 - 8,1 | 21,6 | 94,0 | 19 |
| 36007 | 4 G 0,75 | 6,8 - 8,8 | 29,0 | 90,0 | 19 |
| 36008 | 4 G 0,75 | 6,8 - 8,8 | 29,0 | 90,0 | 19 |
| 36002 | 2 x 1 | 6,1 - 8,0 | 19,0 | 94,0 | 18 |
| 36004 | 3 G 1 | 6,5 - 8,5 | 29,0 | 114,0 | 18 |
| 36005 | 3 G 1,5 | 8,6 - 11,0 | 43,0 | 157,0 | 16 |
| 36006 | 5 G 1,5 | 10,5 - 13,5 | 72,0 | 228,0 | 16 |

Dimensions and specifications may be changed without prior notice. (RF01)